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APPLICATION NO.	F	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/008,800		11/08/2001	Mark A. Gerber	SC11588TK	SC11588TK 7112	
23125	7590	10/24/2002				
MOTORO			EXAMINER			
AUSTIN IN LAW SECT		'UAL PROPERTY	ROMAN, ANGEL			
	EST PARMER LANE MD: TX32/PL02 V. TX - 78729			ART UNIT	PAPER NUMBER	
,				2812		
				DATE MAILED: 10/24/2002	DATE MAILED: 10/24/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. Application No. Application No. Art Unit					180 -				
Examiner Art Unit 2812	•		Application No.	Applicant(s)	14				
Angel Roman 2812 — The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Repty A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE § MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Entersions of time may be available under the provision of 37 CPR 1.136(a). In no event, however, may a reply be timely fred Entersions of time may be available under the provision of 37 CPR 1.136(a). In no event, however, may a reply be timely fred Entersions of time may be available under the provision of 37 CPR 1.136(a). In no event, however, may a reply be timely fred His period for reply specified above, the maximum salutory protein of above, the maximum salutory protein of application to the provision of Claims 4) Solice this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-27 is/are pending in the application. 4a) Of the above claim(s) 16-27 is/are withdrawn from consideration. 5b) Claim(s) 1-15 is/are rejected. 7c) Claim(s) 1-15 is/are rejected to solice of the communication of the provision of the drawing(s) the provision of the provisi		Office Action Comme	10/008,800	GERBER ET AL.					
- The MAILING DATE of this communication appears on the cover sheet with the correspondence address → Period for Repty A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extresions of time may be available under the provisions of 37 CFR 1.35(a). In no event, however, may a reply be timely filed If the protice for reply specified above, he maximum stability period will apply and will replicately (30 days will be considered timely. If NO period for reply specified above, he maximum stability period will apply and will replicately (30 days will be considered timely. If NO period for reply specified above, he maximum stability period will apply and will replicately (30 days will be considered timely. If NO period for reply specified above, he maximum stability period will apply and will replicate SIX (8) MONTH'S from the malling date of this communication, replication to become ABANDHOS (30 st. 95, 133). Province the specification is period will be stable to the communication, even if timely filed, may reduce any status. 1) □ Responsive to communication(s) filed on 27 August 2002. 2a) □ This action is FINAL. 2b) □ This action is non-final. 3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) □ Claim(s) 1-27 is/are pending in the application. 4a) Of the above claim(s) 16-27 is/are withdrawn from consideration. 5) □ Claim(s) 1-15 is/are allowed. 6) □ Claim(s) 1-15 is/are allowed. 6) □ Claim(s) 1-15 is/are allowed. 7) □ Claim(s) 1-15 is/are allowed. 8) □ Claim(s) 1-15 is/are allowed. 10) □ The proposed drawing of the control of the drawing of the provision of the drawing of the provision of the drawing of the provision of the pr		Office Action Summary	Examiner	Art Unit					
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Attachment(s)	Attachment	(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2 Settent and Testenation Office.	2) Notice 3) Inform	of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s) 2	5) Notice of Informal P						

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DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of Group I, claims 1-15 in Paper No. 4 is acknowledged. The traversal is on the ground(s) that the examiner failed to show that the process as claimed could be used to make a materially different product. This is not found persuasive because the product as claimed can also be made by another and materially different process, e.g., a resin compound could be used instead of the tape.

The requirement is still deemed proper and is therefore made FINAL.

Specification

2. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

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The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

4. Claims 6-8 are rejected under 35 U.S.C. 102(b) as being anticipated by Hosoya U.S. Patent 5,795,799 A.

Hosoya discloses a method for forming a package device, comprising; providing a package substrate having a first surface along, a first plane and providing a second surface along a second plane, wherein the package substrate has a cavity between the first plane and the second plane (see figure 3A); placing a first integrated circuit 4 in the cavity (see figure 3B); placing a second integrated circuit 4' adjacent to the first integrated circuit 4 outside the cavity (see figure 3F); and depositing encapsulating material 6 over the first integrated circuit 4 and the second integrated circuit 4' (see figures 3C and 3F). The step of depositing comprises; depositing a first portion of the encapsulating material 6 over the first integrated circuit 4 prior to the step of placing the second integrated circuit 4' (see figure 3C); and depositing a second portion 6' of the encapsulating material over the second integrated circuit 4' (see figure 3F). Hosoya also discloses placing a third integrated circuit 7' adjacent to the second integrated circuit 4' prior to the step of depositing a second portion of encapsulating material (see figure 4). The integrated circuits have, first pads 3 on the first side and second pads 3'

on the second side; the first integrated circuit is place on the first side and the second integrated circuit is placed on the second side; electrical connections are formed between the first integrated circuit and the first pads and the second integrated circuit and the second pads (see figure 3F). The first integrated circuit 4 is placed on the first side prior to the second integrated circuit 4' being placed on the second side (see figure 3B). The first integrated circuit is electrically connected by wires 5 to the first pads prior to the second integrated circuit being electrically connected to the second pads (see figure 3B).

5. Claims 3-7 and 9-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Seki et al. U.S. Patent 6,022,759.

Seki et al. discloses a method of forming a package device, comprising; providing a package substrate having a first side and a second side and having first pads on the first side and second pads on the second side (see figure 15); placing a first integrated circuit 152 on the first side (see figure 20) and a second integrated circuit 151 on a second side; electrically connecting the first integrated circuit to the first pads and the second integrated circuit to the second pads (see figure 22); and testing the first integrated circuit and the second integrated circuit by applying, test probes to the first pads and the second pads (see column 16, lines 15-25). The step of attaching is further characterized by the first integrated circuit being placed on the first side prior to the second integrated circuit being placed on the second integrated circuit being electrically connected to the first pads prior to the second integrated circuit being

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electrically connected to the second pads. The package substrate has a cavity between the first plane and the second plane (see figure 22). The encapsulating material is deposited over the first integrated circuit and the second integrated circuit by depositing a first portion of the encapsulating material over the first integrated circuit prior to the step of placing the second integrated circuit; and thereafter depositing a second portion of the encapsulating material over the second integrated circuit (see figure 22). The package substrate further comprises first pads on the first surface, second pads on the second surface, first bond fingers on the first surface, and second bond fingers on the second surface, further comprising; electrically connecting by wire bonding the first integrated circuit to the first pads; electrically connecting the second integrated circuit to the second pads (see figure 22). The package substrate further comprises an electrically conductive supporting member 126 along, the second plane of the substrate between the first integrated circuit and the second integrated circuit (see figure 20).

6. Claims 3-5 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Lin et al. U.S. Patent 5,239,198.

Lin et al. discloses a method of forming a package device comprising; providing a package substrate 12 having a first side and a second side and having first pads 14 on the first side and second pads 16 on the second side; placing a first integrated circuit 20 on the first side and a second integrated circuit 27 on a second side (see figure 3); electrically connecting the first integrated circuit to the first pads and the second integrated circuit to the first pads and the second integrated circuit to the second pads (see figure 3); and testing the first integrated circuit

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and the second integrated circuit by applying, test probes to the first pads and the second pads (see column 4, lines 30-34). The step of attaching is further characterized by the first integrated circuit being placed on the first side prior to the second integrated circuit being placed on the second side (see figures 1-3). The step of electrically connecting is further characterized by the first integrated circuit being electrically connected to the first pads prior to the second integrated circuit being electrically connected to the second pads (see figures 1-3).

7. Claims 1, 6, 7, 11, 14 and 15 are rejected under 35 U.S.C. 102(e) as being anticipated by Nakamura U.S. Patent 6,333,566 B1.

Nakamura discloses a method for forming, a package device, comprising: providing a package substrate 2 having, a first surface along a first plane and second surface along a second plane, wherein the package substrate has a cavity between the first plane and the second plane (see figure 2a); attaching a tape 8 to the package substrate 2 along the first plane (see figure 2(a)); placing a first integrated circuit 1 on the tape and in the cavity (see figure 2(a); depositing encapsulating material over the first integrated circuit (see figure 2(c)); removing the tape (see figure 2(e)); placing a second integrated circuit adjacent to the first integrated circuit outside the cavity; and depositing encapsulating material over the second integrated circuit (see figure 7). The package substrate further comprises a tape-supporting member 8 along, the second plane of the substrate and a step of removing, the supporting member prior to step of placing the second integrated circuit (see figure 2(d)). The package substrate further comprises first pads on the first

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surface and second pads on the second surface and first bond fingers on the first surface and second bond fingers on the second surface, further comprising; electrically connecting the first integrated circuit to the first pads; electrically connecting, the second integrated circuit to the second pads (see Abstract).

Claim Rejections - 35 USC § 103

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 9. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 10. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nakamura U.S. Patent 6,333,566 B1 in view of Higgins, III U.S. Patent 5,291,062.

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Nakamura is applied as above but lacks anticipation on testing, the first integrated circuit and the second integrated circuit by applying, test probes to the first pads and the second pads. Higgins, III discloses testing an integrated circuit by applying test probes (see column 4, lines 32-40). In view of this disclosure, it would have been obvious to a person having ordinary skills in the art at the time the invention was made to test the integrated circuit in the primary reference of Nakamura by applying probes as disclosed in Higgins, III, since unnecessary packaging cost may be prevented by testing the circuit functionality.

11. Claims 3-5, 9 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hosoya U.S. Patent 5,795,799 A in view of Higgins, III U.S. Patent 5,291,062.

Hosoya is applied as above but lacks anticipation on testing the first integrated circuit and the second integrated circuit by applying test probes to the first pads and the second pads. Higgins, III discloses testing an integrated circuit by applying test probes (see column 4, lines 32-40). In view of this disclosure, it would have been obvious to a person having ordinary skills in the art at the time the invention was made to test the integrated circuit in the primary reference of Hosoya et al. by applying probes as disclosed in Higgins, III, since unnecessary packaging cost may be prevented by testing the circuit functionality.

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Conclusion

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12. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Lin et al., Ugon, Brown, Kumai et al., Chen, Akram et al., Akram, Farquhar et al., Fee et al., Mine et al., Bernardoni et al. and Rathmell et al. disclose methods for packaging semiconductor devices providing package substrates comprising plural devices.

13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angel Roman whose telephone number is (703) 306-0207. The examiner can normally be reached on Monday-Friday 8:30am-6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Niebling can be reached on (703) 308-3325. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7724 for regular communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.

AR October 20, 2002 John F. Niebling Supervisory Patent Examiner Technology Center 2800